

ACCESSION NR: AT3012118

respectively for the NH_3 maser. The entire apparatus (without diffusion pump) measured 1.5 x 0.5 x 0.5 meters and weighed 150 kg, but further reduction in size and weight is expected. "In conclusion the authors thank A. M. Prokhorov for a useful discussion. Orig. art. has: 17 figures, 14 formulas, and 2 tables.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Institute, AN SSSR)

SUBMITTED: 00

DATE ACQ: 29Jul63

ENCL: 00

SUB CODE: PH

NO REF SOV: 010

OTHER: 015

Card 3/3

ACCESSION NR: AP4039664

S/0181/64/006/006/1750/1756

AUTHOR: Svidzinskiy, K. K.

TITLE: Direction and polarization of luminescence in crystals

SOURCE: Fizika tverdogo tela, v. 6, no. 6, 1964, 1750-1756

TOPIC TAGS: luminescent crystal, ruby, spontaneous emission, crystal field, crystal lattice, forbidden transition, photon, angular momentum, quantum number, spin orbit interaction, spectral intensity tensor

ABSTRACT: The angular dependence of Stokes parameters for spontaneous emission by centers of luminescence located in crystal fields was investigated and the luminous spectral intensity tensor was calculated for arbitrary orientation of the radiation. The general conditions on the angular distribution of the radiation imposed by specifications of crystal symmetry in relation to time reversal were studied. The calculations were carried out to examine the angular distribution of R_1^I and R_1^{II} lines of fluorescent ruby produced by transitions from levels $E(^2E_g)$ to $2A(^4A_{2g}^I)$ and to $E(^4A_{2g})$. For dipole radiation these are forbidden transitions. The polarization depends on the levels 2E_g and $^4A_{2g}$ which have the same parity. The

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ACCESSION NR: AP4039664

results of the calculations are given by the equations

$$\left. \begin{aligned} |(2\bar{A}({}^4A_{2g})|d_0|E({}^2E_g))|^2 &= 0, \\ |(2\bar{A}({}^4A_{2g})|d_1|E({}^2E_g))|^2 &= \mathcal{J}_s, \\ |(E({}^4A_{2g})|d_0|E({}^2E_g))|^2 &= \frac{1}{3} \mathcal{J}_s, \\ |(E({}^4A_{2g})|d_1|E({}^2E_g))|^2 &= \frac{2}{3} \mathcal{J}_s. \end{aligned} \right\}$$

where

$$\mathcal{J}_s = \frac{4}{3} \zeta^2 \left| \frac{({}^4F_{2g} x_0, \pm | V_s | {}^4F_{2g} x_0, \pm)}{E({}^2E_g) - E({}^4F_{2g})} \right|^2$$

Here ζ is the spin orbit interaction constant. Following S. Sugano and Y. Tanabe (J. Phys. Soc. Japan, 13, 880, 1958), it was assumed that these factors appear in the spin orbit interactions between 2E_g and ${}^4F_{2g}$, and between ${}^4F_{2g}$ and ${}^4F_{2u}$, resulting in the perturbation of particles of odd parity. The author thanks A. M. Prokhorov for his interest in this work and his useful suggestions. Orig. art. has: 43 formulas.

Card: 2/3

ACCESSION NR: AP4039664

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR)

SUBMITTED: 07Jan64

ENCL: 00

SUB CODE: SS

NO REF SOV: 003

OTHER: 006

Card

3/3

ACCESSION NR: AP4043351

distribution and polarization of the incident radiation. The speeds of the most probable depolarizing processes are estimated. It is shown first that the luminescence depends only on the total excitation probability, which is a function of the symmetry and orientation of the luminescent center and of the angular distribution of the exciting radiation. This function is evaluated and it is found in addition that the number of parameters which determine the angular and polarization dependence of the electric and magnetic dipole excitations is equal to 1 for centers with rotational symmetry axes beyond the two-fold axis, 2 in the case of rhombic symmetry, and 5 in the absence of point symmetry (with exception of an inversion center). "The author is grateful to A. M. Prokhorov for interest in the work." Orig. art. has: 27 formulas.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR
(Physics Institute, AN SSSR)

Card

2/3

ACCESSION NR: AP4043351

SUBMITTED: 17Feb64

ENCL: 00

SUB CODE: SS, OP

NR REF SOV: 006

OTHER: 005

Card

3/3

L 18280-65 EWT(1) IJP(c)/AFWL/AEDC(a)/ESD(t)

ACCESSION NR: AR5000803

S/0053/64/000/010/E070/E070

SOURCE: Ref. zh. Fizika. Abs. 10E545

AUTHOR: Svidzinskiy, Ya. V. B

TITLE: Concerning the ground state in the model with the reduced
BCS Hamiltonian

CITED SOURCE: Fiz.-tekhn. in-t. nizek. temperatur AN USSR. Khar'kov,
1964, 21

TOPIC TAGS: Fermi particle, elementary particle, potential theory
problem

TRANSLATION: The reduced Bardeen-Cooper-Schrieffer Hamiltonian is
investigated for the case of an arbitrary potential of effective at-
traction between Fermi particles. By generalizing the majorization
technique of N. N. Bogolyubov, which was developed earlier for the

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L 18280-65

ACCESSION NR: AR5000803

case of a potential that can be factored out, the author estimates upper and lower bounds for the energy of the ground state. The upper bound on the energy of the ground state of the initial Hamiltonian is the energy of the auxiliary Hamiltonian which is quadratic in the Fermi-particle operators (the so-called approximating Hamiltonian) and the existence of a lower bound is rigorously proved. The lower-boundedness of the energy of the ground state of the initial Hamiltonian is also proved. With the aid of a less rigorous analysis it is shown that in the limit of an infinite volume, the energy densities of the ground states of the Bardeen-Cooper-Schrieffer and of the approximating Hamiltonians coincide.

SUB CODE: GP

ENCL: 00

Card 2/2

SVIGIR, Miroslav

The new road construction binders for industrial asphalt production.
Kem ind 13 no.12:Suppl:Strucno-komercijalna publikacija Chromos-
Katran-Kutrilin 5/6:1055-1058 '64.

1. Business Manager, Factory of Bituminous and Tar Products.

SVIGLER, Jan, inz.

Holder for a large number of the S 586 pickups. Sdel tech
12 no.11:413 N '64.

L 51829-65

ACCESSION NR: AP5016953

07/0014/64/000/111/0413/0413

AUTHOR: Svigler, Jan (Engineer)

TITLE: Holder for a large number of S 586 pickups

SOURCE: Sdelovaci tehnika, no. 11, 1964, 413

TOPIC TAGS: electronic circuit, electronic component

ABSTRACT: Technical data are given on the S 586 contactless pickup designed to regulate electric circuits through a mechanical movement of the diaphragm. It may be used for signalling the reaching or passing of a point, revolution measuring, and in compensation amplifiers. Orig. art. has 4 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

JPKS

ah
copy 1/2

6
8

SVIGRIS, A. Yu.

Sensitivity of hemopoietic organs of pregnant animals and their
fetuses to ionizing radiations [with summary in English]. Akush.
i gin. 34 no.5:11-17 S-0 '58 (MIRA 11:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. K.N. Zhamkin)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(PREGNANCY, physiol.

eff. of x-ray on hemopoietic organs & fetus in animals
(Rus))

(ROENTGEN RAYS, eff.

on hemopoietic organs & fetus in pregn. animals (Rus))

(HEMOPOIETIC SYSTEM, eff. of radiations on

x-ray, in pregn. animals (Rus))

(FETUS, eff. of radiations on

x-ray, in animals (Rus))

SVIGUN, V.S. (Kiyev, Brest-Litovskoye shosse, d.92/2, kv.3)

Electromotor properties of preserved bones. Ortop., travm. i protez. 25 no.12:49-52 D '64.

(MIRA 19:1)

1. Iz laboratorii konservirovaniya tkaney (zav. - starshiy nauchnyy sotrudnik A.F.Brodskiy) Ukrainskogo Instituta ortopedii i travmatologii v Kiyeve (direktor - dotsent I.F.Alekseyenko; nauchnyy rukovoditel' chlen-korrespondent AMN SSSR - prof.F.R.Bogdanov).
Submitted October 25, 1963.

SVIHÁLEK, J.

Do fluorescent lamps damage eyesight? p.306

ENERGETIKA. (Ministerstvo paliv a energetiky. Hlavní správa
elektaren) Praha

Vol. 5, no. 8, Aug. 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

SVIHÁLEK, J.

Measurements with the Masa instrument. p.315

ELEKTROTECHNIK. (Ministerstvo strojírenství) Praha

Vol. 10, no. 10, Oct. 1955

East European Accessions List

Vol. 5 No. 1

Jan. 1956

SVIHALEK, J.

SVIHALEK, J. Stage illumination. p. 53.

Vol. 12, no. 2, Feb. 1957

ELEKTROTECHNIK

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SVIHALEK, J.

SVIHALEK, J.: New street lights. p. 61.

Vol. 12, no. 2, Feb. 1957

ELEKTROTECHNIK

TECHNOLOGY

Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

I 20865-66 EWT(1)/ETC(f)/EPF(n)-2/ENG(m) IJP(s) AT
ACC NR: AP6011084 SOURCE CODE: CZ/0017/65/054/011/0538/0543

AUTHOR: Svihalek, Jan (Doctor; Engineer)

ORG: none

33
B

TITLE: Influence of admixtures to the plasma of Xe and Hg discharge tubes

SOURCE: Elektrotechnicky obzor, v. 54, no. 11, 1965, 538-543

TOPIC TAGS: dischargetube, plasma, xenon, mercury, halide, luminophor

ABSTRACT: The article deals with new findings in the manufacture of mercury high-pressure and xenon discharge tubes. It reports on the influence of halide admixtures to the plasma of the mercury discharge. It shows how research workers endeavor to obviate the color correction of the light accomplished so far by luminiphores by applying iodides and other elements not used previously. This paper was presented by Engineer K. Buebaum. Orig. art. has: 12 figures and 2 tables. [JPRS]

SUB CODE: 20 / SUBM DATE: 12Apr65 / OTH REF: 003

Card 1/1 *LJC*

UDC: 621.327.4

VALENTA, Dusan, inz.; SVIHEL, Josef

Mobile plant for panel production from corrugated asbestos cement.
Inz stavby ll no.8:297-301 Ag '63.

1. Hydrostav, n.p., Batislava.

SVIHLA, Vladimir

Removing rust from steel bridge constructions and cleaning them. Zel dop tech 11 no. 12: 372 '63.

SVIHLA, Vladimir

Repair of the Rotava Tunnel by the Aerozem method. Zel dop tech
12 no.5:124-125 '64.

SVIHOVEC, J.; MASEK, K.; JIRICKA, Z.

Mechanism of the effect of staphylococcus toxin on blood pressure.
Physiol. bohemoslov. 12 no.1:51-54 '63.

1. Department of Pharmacology, Faculty of Paediatrics, Prague, and
Central Pharmacology Laboratories, Czechoslovak Academy of Sciences,
Prague.

(STAPHYLOCOCCUS) (TOXINS AND ANTITOXINS) (BLOOD PRESSURE)
(ADRENAL GLANDS) (CATECHOLAMINES)

L 13205-66 EWA(j)/T/EWA(b)-2 JK

ACC NR: AP6006093

SOURCE CODE: CZ/0053/65/014/004/0317/0317

29
B

AUTHOR: Svihovec, J.

ORG: Institute of Pharmacology, Faculty of Pediatrics, Prague (Farmakologicky ustav rak. dets. lek.)

TITLE: Effect of staphylococcal toxin on smooth vascular muscle [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 26 Jan 65.]

L 4415

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 317

TOPIC TAGS: toxicology, bacteriology, pharmacology, drug effect, rat, rabbit, cardiovascular system

ABSTRACT: In perfused rat and rabbit aorta and mesenteric arteries, staphylotoxin constricted the vessels after a very short latent period; phentolamine or 114 mM potassium chloride solution depolarization had no inhibitory effect on this phenomenon. Prolonged (45 minutes) perfusion with calcium-free solution did prevent contraction, but also reduced the catecholamine reactions. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001

jrn

Card 1/1

2

SVIHOVEC, J.; VOLICER, L.; BABEJ, M.; Chair of Pharmacology (Katedra Farmakologie) FDL [Abbreviation not explained], Pharmacological Institute, Czechoslovak Academy of Sciences (Farmakologicky Ustav CSAV), Prague.

APPROVED FOR RELEASE: 08/31/2001

The Influence of Reserpine, Noradrenalin, and Tyramine."

CIA-RDP86-00513R001654130003-8"

Prague, Ceskoslovenska Fysiologie, Vol 15, No 5, Sep 66, p 395

Abstract: The pressor effect of angiotensin (AT), noradrenalin (NA), and of tyramine (TY) was investigated on reserpinized dogs. Reserpinization increased the pressor effect of AT and NA, but decreased that of TY. An infusion of NA in reserpinized dogs somewhat increased the effect of AT, and completely restored the effect of TY. Infusion of AT did not change the effect of NA. Reserpinization did not affect the action of AT and NA on heart beat frequency, but eliminated the action of TY on normal tachycardia. 2 Western, 1 Japanese reference. Submitted at 14 Days of Pharmacology at Smolenice 15 Feb 66.

1/1

ZVA-50 L 05115-67 JK

ACC NR: AP6032380

SOURCE CODE: CZ/0053/66/015/005/0404/0404

21
B

AUTHOR: Friedrich, R. ; Svihovec, J. ; Stulc, J. ; Babej, M.

ORG: Department of Pharmacology of the Pediatrics Faculty, Prague (Katedra farmakologie fakulty detskeho lekarstvi)

L 05115-67

ACC NR: AP6032380

experienced in this process do not cause any irreversible damage to smooth muscle membrane, and that these changes are not a decisive factor in the development of muscle contraction. [WASO] [KP]

SUB CODE: 06/ SUBM DATE: none/

Card 2/2

ymb

SVIJEVSKI, V.; Mangeron, D.; Dragan, C.

New method of studies concerning the theory of mechanics and machines. p. 51.
(STUDII SI CERCETARI DE MECANICA APLICATA. Vol. 8, no. 1, Jan/Mar. 1957,
Bucuresti, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

SVIK, A.

"Speed and quality of construction and the finishing work on water projects. (Conclusion)."

p. 161 (Stavba) Vol. 4, no. 6, June 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

SVIKARSIC, M.

Annual Assembly of the Society of Mathematicians and Physicists of
Slovenia. Obz mat fiz 7 no.1:40 Mr '60. (EEAI 9:8)
(Slovenia--Mathematics) (Slovenia--Physics)

KIREYEV, Sh.G.; SVIKHUSHIN, N.M.

Results of testing and exploiting the interval of the transitional zone from oil to water in the Aznakayevo region. Neftgaz. geol. i geofiz. no.9:26-29 '64. (MIRA 17:11)

1. Neftepromyslovoye upravleniye "Aznakayevskneft'" i Tatarskiy neftyanoy nauchno-issledovatel'skiy institut, g. Bugul'ma.

SVIKHNUSHIN, N.M., TUR, V.D.

Effect of the solid and colloidal phases of clay mud on the reduction
of the permeability of the bottom zone. Buzanie no.1:22-24 '65.
(MIRA 18:5)

1. Tatarskiy nefryanoy nauchno-issledovatel'skiy institut.

SVIKHNUSHIN, N.M.

Determining the residual saturation and maximum recovery factor
of oil-bearing layers. Neftegaz. geol. i geofiz. no.11:29-31 '65.
(MIRA 18:12)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut, g.
Bugul'ma.

SVIKIS, A.

GENERAL

PERIODICALS: VESTIS, NO. 6, 1958

SVIKIS, A. Class structure and differentiation of the peasantry in bourgeois Latvia during the period of partial stabilization of capitalism, 1923-1929. p. 5.

Monthly list of East European Accessions (EEAI) IC, VOL. 8, No.2,
February 1959, Unclass.

SHARDS, V.; SVIKIS, J., red.

[Fumps] Sukni. Riga, Izdevnieciba "Liesma," 1965. 166 p.
[In Latvian] (MIRA 18:6)

SVIKIS, J.; TOMISEVS, A.; SPRIVULIS, Z., red.

[Mechanization of the protection of plants] Augu aiz-
sardzibas darbu mehанизациja. Riga, Latvijas Valsts izd-
ta, 1963. 167 p. [In Latvian] (HRA 1717)

SVIKLE, D.(Riga); SERGEYEVA, V.(Riga)

Esterification of pine oleoresin. Vestis Latv ak no.4:133-136
'61. (EAI 10:9)

1. Akademiya nauk Latvyskoy SSR, Institut lesokhozyaystvennykh
problem i khimii drevesiny.

(Esterification) (Oleoresins)

MIKHAYLOV, Yu.; SVIKLIS, B.

Microstructure of heat-treated peat. Vestis Latv ak no.8:21-26 '61.

1. Akademiya nauk Latviyskoy SSR, Institut energetiki i elektrotehniki.

MIKHAYLOV, Yu.; SVIKLIS, B.

Effect of heat treatment on the dispersity, density, and porosity of peat [with summary in English]. Vestis Latv ak no.11:47-54 '61.

1. Akademiya nauk Latvyskoy SSR, Institut energetiki

SVIKLIS, P.B., Cand Tech Sci — (diss) "On the change in ^{the}
permeability ~~to~~ water) of ~~the~~ turfy carbonaceous ground
soils in drainage operations under conditions of the
Latvian SSR." Riga-Mos, ¹⁹⁵⁹ 1059, 25 pp with graphs (Min of
Agr USSR. All-Union Sci Res Inst of ^{Hydraulic} ~~Hydro~~ Engineering
and Improvement in A.N. Kostyakov) 200 copies
(KL, 33-59, 119)

SVIKLIS, P.B.

Reclaiming excessively wet soils in Latvia. Zemledelis 25 no.5:
16-20 My '63. (MIRA 16:7)

1. Direktor Latviyskogo nauchno-issledovatel'skogo instituta
gidrotekhniki i melioratsii.
(Latvia--Drainage)

TUMASHEVITS, V.F. [Tumasevic, V.]; SVIKIS, V.; KOLOTUKHINA, P.I.;
DANEMANE, V.; ZIEMELE, I.; IL'INA, S.G.; KARKLINA, S.;
SAKSONE, V.; LEVI, S., red.

[The lumbering and woodworking industry of the Baltic
Economic Region; its condition and prospects for develop-
ment] Lesopil'no-derevoobrabatyvaiushchaia promyshlen-
nost' Pribaltiiskogo ekonomicheskogo raiona; sostoianie
i perspektivy razvitiia. Riga, Izd-vo AN Latviiskoi SSR,
1964. 95 p. (MIRA 18:6)

1. Latvijas Padomju Socialistiskas Republikas Zinatnu
Akademija. Ekonomikas instituts.

SVIKLIUS, A., asp.

Intravenous cholangiocholecystography in the diagnosis of diseases of the gallbladder and bile ducts. Sveik. apsaug. 8 no. 10:7-12 0*63.

1. Vilniaus Valstybinio V. Kapsuko v. universiteto Medicinos fakulteto fakultetines chirurgijos katedra. Vedejas - doc. K. Katilius.

*

SVIKOVA, A.; MISUREC, R.

A highly efficient bath for nickel-plating. p.14.

CHECHOSLOVAK HEAVY INDUSTRY. (Ceskoslovenska obchodni komora) Praha,
Czechoslovakia. No.7, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol.9, no. 1, Jan.1960.

Uncl.

SVIKUL' V.A.

FIGURE 1 BOOK EXTRACTS 807/359

Bornil' radiatsionnoy i dolyami-lichnoy metodu (Collection of Radio-chemical and Physical Methods) Moscow, Medits, 1959. 499 p. Krieva ally Illustrated. 9,000 copies printed.

Rid. (this page): M.D. Osery, V.Ye. Knyazev, A.M. Kozlov, E.Ye. Tarasenko, Yu.M. Shchegolev; Ed. (Inside book): V.I. Labunov; Tech. Ed.: A.I. Baburova.

PURPOSE: This collection of articles is intended for physicists, sanitation and public health workers, chemists and other specialists working in radioactive industry.

CONTENTS: This work discusses the following subjects: (1) principles of recording emanation and dosimetric counting; (2) analytical and chemical methods carried on with radioactive substances; (3) radio-chemical and chemical methods for determining total and free iodine in samples of air, water, soil and foodstuffs; (4) physical methods of measuring contamination of the air by radionuclides; (5) methods, and methods for determining the level of radioactivity of writing surfaces, clothes and leather coverings; (6) methods of measuring external stresses of x- and gamma-radiation, and methods of individual dosimetric monitoring; (7) Absorbed and relative methods of measuring the activity of solid and liquid radioactive sources. There are four appendices dealing with methods of calculating the total dosage from sources of ionizing radiation, units of activity, and doses from natural (background) radioactivity. In the section of radionuclide substances are given data on their physical, chemical, and biological properties. The section on the use of alpha-emitting radionuclides in the study of biological processes is also included. References are given at the end of each chapter.

Ch. III. Radio-chemical Methods of Determining Radioactive Substances

1. Determination of iodine in drainage waters (V.A. Svirsky and V.A. Grishin)	85
2. Determination of iodine in drainage waters (V.A. Svirsky and V.A. Grishin)	85
3. Determination of iodine in drainage waters (V.A. Svirsky and V.A. Grishin)	85
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16. Determination of iodine in drainage waters (V.A. Svirsky and V.A. Grishin)	85

Ch. IV. Radio-chemical and Physical Methods of Determining Certain Radioactive Elements in the Air

Introduction (M.S. Bykovskiy and N.Ye. Tarasenko)

1. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
2. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
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11. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
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16. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
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21. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
22. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
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38. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
39. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
40. Radioactive elements in the air (M.S. Bykovskiy and N.Ye. Tarasenko)	98
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TAUTSIN', E. [Taucins, E.]; SVILANE, A.

Mixed feed supplementation with trace elements and its effect on the mineral composition of food products of animal origin. Vestis Latv ak no.8:75-81 '61.

1. Akademiya nauk Latviyskoy SSR, Institut biologii.

SVILANS, M.P.

137

PHASE I BOOK EXPLOITATION

BOV/5486

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniyy v narodnoye khozyaystvo SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy soveshchaniya v 4 tomakh. t. 1: Obshchiye voprosy primeneniya izotopov, pribory s istochnikami radioaktivnykh izlucheniyy, radiatsionnaya khimiya, khimicheskaya i neftepererabatyvayushchaya promyshlennost' (Radioactive Isotopes and Nuclear Radiations in the National Economy of the USSR; Transactions of the Symposium in 4 Volumes. v. 1: General Problems in the Utilization of Isotopes; Instruments With Sources of Radioactive Radiation; Radiation Chemistry; the Chemical and Petroleum-Refining Industry) Moscow, Gostoptekhizdat, 1961. 340 p. 4,140 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskyy komitet Soveta Ministrov SSSR, and Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii.

Ed. (Title page): N.A. Petrov, L.I. Petrenko and P.S. Savitskiy; Eds. of this Vol.: L.I. Petrenko, P.S. Savitskiy, V.I. Sinitsein, Ya. M. Kolotykin, N.P. Syrkus and R.F. Romm; Executive Eds.: Ye. S. Levina and B. F. Titskaya; Tech. Ed.: E.A. Mikhina.

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137

Radioactive Isotopes (Cont.)

SOV/5486

PURPOSE: The book is intended for technical personnel concerned with problems of application of radioactive isotopes and nuclear radiation in all branches of the Soviet economy.

COVERAGE: An All-Union Conference on problems in the introduction of radioactive isotopes and nuclear radiation into the national economy of the Soviet Union took place in Riga on 12-16 April 1960. The Conference was sponsored by: the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers, USSR); Glavnoye upravleniye po ispol'zovaniyu atomoy energii pri Soveta Ministrov SSSR (Main Administration for the Utilization of Atomic Energy of the Council of Ministers, USSR); Academy of Sciences, USSR; Gosplan USSR; Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers, USSR, for Automation and Machine Building) and the Council of Ministers of the Latvian SSR. The transactions of this Conference are published in four volumes. Volume I contains articles on the following subjects: the general problems of the Conference topics; the state and prospects of development of radiation chemistry; and results and prospects of applying radioactive isotopes and nuclear radiation in the petroleum refining and chemical industries. Problems of designing and manufacturing instruments which contain sources of radioactive radiation and are used for checking and automation of technological processes are examined, along with problems of accident prevention in their use. No personalities are mentioned. References accompany some of the articles.

Card-2/1?

Radioactive Isotopes (Cont.)	SOV/5486	
Svilans, M.P. Development of Instruments Using Radioactive Isotopes at the VEF Plant		131
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Card-6/12		

ACC NR: AP7007040

SOURCE CODE: UR/0197/66/000/008/0039/0045

AUTHOR: Kurmit, A. A.; Syllans, M. P.

ORG: Institute of Electronics and Computer Technology AN LatSSR
(Institut elektroniki i vychislitel'noy tekhniki AN LatSSR)

TITLE: Distortion of the envelope of an amplitude modulated signal in the selective high frequency stage

SOURCE: AN LatSSR. Izvestiya, no. 8, 1966, 39-45

TOPIC TAGS: FM, radio signal

SUB CODE: 17

ABSTRACT: The primary amplification of radio signals in a received is performed in the IF section. The distortions which may occur in this section, primarily non-linear distortion, should be studied separately for amplitude and frequency modulated signals. Non-linear distortions of a low frequency signal in the IF section may occur due to suppression of the carrier frequency relative to the side bands or due to asymmetry of the pass band relative to the central frequency of the amplified spectrum. A quantitative evaluation of these distortions was performed on the basis of certain mathematical considerations. A digital computer was used to calculate values of the coefficients of non-linear distortion caused both by suppression of the carrier relative to the side bands and by a shift of the central frequency of the signal relative to the axis of symmetry of the pass band. The results are presented as a set of curves. The functional dependence of distortions on the degree of over modulation can

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ACC NR: AP7007040

be approximated by the following formula:

$$K\% = 30 + 34.3a - 30(19-a/19)^{16\%}$$

the formula can be used to calculate the dependence of the coefficient of nonlinear distortion on a shift of the modulated signal spectrum relative to the axis of symmetry of the frequency characteristic of IF stage. It shows that the maximal possible distortion in the absence of over-modulation is 22.73%. The coefficient of non-linear distortion is found to be dependent on two factors, namely: the ratio of amplifications of side bands (least to greatest) b, and the ratio of carrier to upper side band (also least to greatest) d. Orig. art. has: 8 figures and 17 formulas. JPRS: 38,330

Card 2/2

2120. Svilpe, K. Ya.

Pribor Dlya Proverki Tolshchiny Sloya Pokrytiy. (M.), 1954. 6 s.s. Chert.
24sm. (M-Vo Avtomob, Trakt. I S.-Kh. Mashchinostroyenir SSSR. Tsentr
Byurt. Tekhn. Informatsii. Obmen Opytom V Mashchinostroenii. No. 31).
1.500 EKZ. Bespl.-Avt. Ukazan V Kontse Teksta.-Bez Tnt. L. I. Obl.-
(54-15016ZH)

SVILYUKOV, A.F.

Labor productivity of the Lenin geological prospecting party
under the reduced seven-hour workday. Razved. i okh.nedr 24
no.10:51-52 0 '58. (MIRA 12:2)

1. Ukrainskiy respublikanskiy komitet profsoyuza rabochikh
geologorazvedochnykh rabot. (Hours of labor)
(Prospecting)

SVLEXYUKOVA, A. P.

4

The drying of the protective coatings of microfilm with infrared rays. A. P. Zuykova, N. D. Kras, and R. F. Sviridov. *St. Petersburg Herald*, No. 1, 1958, p. 11.

... system with the temperature of the air ...
... for red lead and 0.1% for an asphalt lacquer; water ...
... distance was extended to 6 days or more, but production ...
... capacity was limited. Adopted finally was a system with a ...
... conveyor 9 m. long and 1.5 m. wide with belt movement of ...
... 0.16 m./hr. and with heating, drying, and cooling sections ...
... 1 and 1 m. resp. Heat energy is supplied by means of a ...
... lamps in the drier section range ...

OK-720
U

SVILYUKOVA, R. F.

Distr: 4E3d

The drying of the protective coatings of mirrors with in-
frared rays. T. R. Zhabova, N. D. Kisev, and R. F.
Svilyukova. *Glass and Ceram.* (U.S.S.R.) 13, 43-C (1966)
(English translation).--See C.A. 51, 13336f. B.M.R.

114
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SVIMBERSKY, Ladislav, inz.

Not well weighed consequences. Energetika Cz 14 no.1:
28-29 Ja'64.

1. Ustav technickeho dozoru, Praha.

L 63112-65 ENT(1)/ENT(m)/EPF(n)-2/ENG(m)/EPA(w)-2 DIAAF/IJP(c) AT
 ACCESSION NR: AP5020374 UR/0141/65/008/003/0628/0629
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41
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 6

AUTHOR: Pataraya, A. D.; Svimonishvili, V. J.

TITLE: Bremsstrahlung from a plasma

SOURCE: ¹¹IVUZ. Radiofizika, v. 8, no. 3, 1965, 628-629 ²¹

TOPIC TAGS: plasma physics, bremsstrahlung, relativistic plasma, plasma radiation

ABSTRACT: The authors examine bremsstrahlung from a plasma, taking into account thermal motion of electrons and ions and directional motion of electrons, but not the effect of coherent radiation. Electron bremsstrahlung from a plasma is examined in the non-relativistic case considering the thermal motion of electrons and ions. The total bremsstrahlung power can be computed by methods such as those cited by Kogen and Migdal in "Plasma Physics and the Problem of Controlled Thermonuclear Reactions," *Izd. AN SSSR*, Moscow, 1958. A formula for the total radiation power is given. Next, bremsstrahlung is examined in the non-relativistic case considering the directional motion of electrons. The velocity distribution function for electrons is Maxwellian in a system moving with a given velocity. An expression for total bremsstrahlung power is presented for this case. At a constant temperature

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ACCESSION NR: AP5020374

power increases with beam velocity. In the third instance, the bremsstrahlung of a relativistic beam of electrons in a plasma is investigated and a distribution function normalized in momentum space is presented. An expression is found for the bremsstrahlung of a highly relativistic beam not, however, at a relativistic temperature. Orig. art. has: 6 formulas.

ASSOCIATION: Institut fiziki AN Gruz. SSR (Institute of Physics, AN Gruz. SSR)

SUBMITTED: 12Oct64

ENCL: 00

SUB CODE: NP, ME

NO REF SOV: 002

OTHER: 000

lls
Card 2/2

SVINAR, K.P.

BESPYATOV, M.P., kandidat tekhnicheskikh nauk; POLSTYANOV, V.I., inzhener;
SVINAR, K.P., inzhener.

Operation of continuous apparatus for carbonate saponification of
split fats. Masl.-zhir. prom. 23 no.2:39-40 '57. (MIRA 10:4)

1. Khar'kovskiy politekhnicheskii institut (for Bespyatov). 2. Khar'-
kovskiy mulovarennyy kombinat (for Polstyanyov, Svinar).
(Oils and fats)

SVINAR, K.P.

BESPYATOV, N.P., kandidat tekhnicheskikh nauk; POISTYANOV, V.I., inzhener;
SVINAR, K.P., inzhener.

Production of carbon dioxide for the food industry in the continuous
carbonate saponification of fats. Masl.-zhir. prom. 23 no.4:28-31
'57. (MLRA 10:5)

1. Khar'kovskiy politekhnicheskii institut im. Lenina (for Bespyatov).
2. Khar'kovskiy mylovarenny kombinat (for Polstyanyov and Svinar).
(Carbon dioxide) (Oils and fats)

33670

S/058/61/000/012/027/083
A058/A101

26.2421

AUTHORS: Mushinskiy, V. P., Svinarchuk, G. Z., Gramatskiy, V. I.

TITLE: Temperature dependence of absorption in thin Al_2Se_3 films

PERIODICAL: Referativnyy zhurnal, Fizika, no. 12, 1961, 198, abstract 12V302
("Uch. zap. Kishinevsk. un-t", 1960, no. 55, 25-30)

TEXT: The spectral variation of absorption in 450 - 1,000 $m\mu$ -thick polycrystalline Al_2Se_3 films was investigated in the range from -183° to $-200^\circ C$. A long-wavelength shift of the absorption curve with increasing temperature was established. This is associated with a change in width of the forbidden zone incident to heating owing to interaction between electrons and lattice vibrations. The coefficient of temperature variation of the width of the forbidden zone equals $5 \div 6.4 \cdot 10^{-4}$ ev/degree.

[Abstracter's note: Complete translation]

Card 1/1

X

30636

S/081/61/000/020/012/089
B144/B101

24,7400 (1055,1454,1533)

AUTHORS: Mushinskiy, V. P., Svinarchuk, G. Z., Gramatskiy, V. I.TITLE: Temperature dependence of absorption in thin Al_2Se_3 layersPERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 34-35, abstract
20B241 (Uch. zap. Kishinevsk. un-t, v. 55, 1960, 25-30)

TEXT: The temperature dependence (for temperatures from -183 to $+200^\circ C$) of the forbidden-band width was spectroscopically studied in Al_2Se_3 layers of $>0.3\mu$ thickness. It has been established that the shifting of the absorption curves in the direction to shorter waves on temperature reduction and to longer waves on temperature increase is apparently due to a change in the forbidden-band width of Al_2Se_3 owing to the increased intensity of lattice vibrations and to the change in the character of the electron - lattice interaction. The temperature coefficient was also determined for the change in forbidden-band width $(5-6.4) \cdot 10^{-4}$ ev/deg.
[Abstracter's note: Complete translation.]

Card 1/1

L 01256-67

ACC NR: AP6032956

gun. The electron gun schematically presented in Fig. 1 was developed for zone melting dielectric materials with coefficients of secondary emission greater than one. The tungsten collector (2) for secondary electrons simultaneously accelerates the primary electrons, and therefore has the same functions as the accelerating grid in previous electron guns which had very serious defects. Transparent corundum single crystals of regular shapes, 60 mm long and 4.4 mm in diameter, were grown by the method described on corundum seed crystal in vacuum and had a molten-zone travel rate of 80 mm/hr. Growing single crystals without seed was also possible. Orig. art. has: 3 figures. [JK]

SUB CODE: 20/ SUBM DATE: 16Dec65/ ORIG REF: 002/ OTH REF: 004/ ATD PRESS: 5097

hs

Card 2/2

Svinarenko, D.M.

✓ 8. . HEADING 240.4 METRES OF CROSSCUT IN ONE MONTH. Kozub, F.S. and *Svil* 2
 Svinarenko, D.M. (Belkan. Trud. tyazhel. Rabot (Izoch. arduous wk, Moscow),

Sept. 1955, vol. 9, 27-30). The crosscut referred to is located in the Novaya mine, Krivirog coal field, at a depth of 427 m. The rock mass, 25 m thick, through which the crosscut was driven, consisted of bands of chloritic shale, sterile hornstone and ferrous carbonate, varying in thickness between 2 and 15 m and strongly fissured. The rock was fairly hard and dry. It proved unnecessary to set any supports but the heading was gunited. The heading was organized as an independent district. The total number of men employed was 38, each man being conversant with at least 2 or 3 trades. Four production shifts of 6 hours each were worked in every 24 hours, a full cycle being completed in every shift. The work was maintained for 7 days a week until the entire crosscut, 475 m long, had been headed. The drill bits were resharpened at the colliery workshops on the surface. Ammonite "V-3" was used as the explosive after some experimenting with other types. The heading was ventilated by the combined method, i.e., both suction fan and by forcing with compressed air. When the heading had advanced 60 m a booster fan was installed. A P11-1 shovel loader and a "Krivbass-8" transporter fitted with an extended delivery jib for transferring the dirt into two tubs were used. N.C.B.

SVIHARENKO, D.M.; LUGOVSKIY, S.I.; RED'KO, I.A.; SEMENKO, P.I.

Progressive work practices in the Hevaia iron ore mine. Ger.zhur.
no.10:12-18 0 '55. (MLRA 9:2)
(Krivey Rog--Iron mines and mining)

SOV/127-59-1-7/26

AUTHORS: Svinarenko, D. M., Head of Mining Management and
Bol'shakov, Ya. G., Mining Engineer

TITLE: The Introduction of a Reduced Working Day and Wage Regulation
in the Mine imeni Dzerzhinskiy (Perekhod na sokrashchenny
rabochiy den' i uporyadocheniye zarobotnoy platy na rudnike
imeni Dzerzhinskogo)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, pp 28-31 (USSR)

ABSTRACT: The reduced working day and a new tariff and wage system were
introduced in the mine imeni Dzerzhinskiy during the third
quarter of 1957. The quarry and the crushing and flotation
plant were put under a new tariff and wage regulation during
the fourth quarter of 1957; the surface mining workers were put
under the new tariff and wage regulation in the beginning of
January 1958, and the auxiliary mining shops, during March-
April 1958. Compound brigades were introduced ten months
before the reduction of the working day. Each member of the
compound brigade exercises all necessary duties. The reor-
ganization permitted the production of 200,000 tons of ore in
excess of the 1958 yearly plan. The author recommends:

Card 1/2

BONDARENKO, I.I., ZHUKOV, M.N.; ZINCHEVSKIY, N.P.; RED'KO, I.A.;
SEMENKO, P.I.; SVINARENKO, D.M.; KHIVRENKO, A.F.; SHKUTA, B.I.;
SHOSTAK, A.G.

Review of "Ventilation of mines after large-scale blasting"
by S.I.Lugovskoi. Reviewed by I.I.Bondarenko and others.
Bezop.truda v prom. 3 no.8:38 Ag '59. (MIRA 12:11)

1. Glavnyy inzhener upravleniya Krivorozhskogo okruga Gosgortekhn-
dsora USSR (for Bondarenko). 2. Glavnyy inzhener instituta
Krivbassproyekt (for Zhukov). 3. Glavnyy inzhener rudoupravleni-
ya im. Karla Libknehta (for Zinchevskiy). 4. Nachal'nik otdela
kapital'nogo stroitel'stva rudoupravleniya im. Dzerzhinskogo
(for Ryng). 5. Nachal'nik ventilyatsii tresta Dzerzhinskru-
da (for Red'ko). 6. Upravlyayushchiy rudoupravleniyem im.
Dzerzhinskogo (for Svinarenko). 7. Upravlyayushchiy upravleniyem
im. Karla Libknehta (for Semenko). 8. Glavnyy inzhener tresta
Dzerzhinskru-
da (for Khivrenko). 9. Glavnyy inzhener rudouprav-
leniya im. Dzerzhinskogo (for Shkura). 10. Nachal'nik tekhn-
cheskogo otdela tresta Dzerzhinskru-
da (for Shostak).
(Bibliography--Industrial safety) (Lugovskoi, S.I.)

SVINARENKO, D.M.; PORTNOV, A.A.

Technical progress and growth of labor productivity at
the "Gigant" Mine. Gor.zhur. no.8:3-7 Ag '60.
(MIRA 13:8)

1. Upravlyayushchiy rudnikom im.Dzerzhinskogo Krivorozhskogo
zhelezorudnogo basseyna (for Svinarenko). 2. Nachal'nik
tekhnicheskogo otdela rudoupravleniya im. Dzerzhinskogo
(for Krivorozhskogo zhelezorudnogo basseyna (for Portnov)).
(Krivoy Rog--Iron mines and mining)

SOV-125-58-8-8/16

AUTHORS:

Kazimirov, A.A., Morgun, V.P., Clifer, G.O., Ivanushkin, G.Ya.,
Kapustyanov, Ye.V., Svinarenko, I.T. and Tyagun, A.A.

TITLE:

Durability of **Mass-produced** Hatches of Railway Gondola Cars **While**
Loading Under Pressure (Prochnost' seriynykh kryshek lyukov
zheleznodorozhnykh poluvagonov pri udarnoy nagruzke)

PERIODICAL:

Avtomaticheskaya svarka, 1958, Nr 8, pp 46-59 (USSR)

ABSTRACT:

The existing hatches of gondola cars in the USSR are unsatisfactory and cause considerable losses of coal in rail-road transport. Hatches of 60- and 93-ton cars produced by Uralvagonzavod and the Kryukov Car Building Plant were experimentally tested and deficiencies of their design were revealed. As a result of the experiments, new hatch designs were developed. Several variations are suggested composed of bent, thin-walled profiles. The proposed hatches are rigid, lighter, and more durable than the hatches presently in use. There are 6 diagrams, 5 graphs, 2 tables and 2 Soviet references.

Card 1/2

SVINARENKO, M. I.

BELOGLAZOVA, O.A., redaktor; SVINARENKO, M.I., redaktor.

[Atlas of the U.S.S.R.] Atlas SSSR. Moskva, 1954. 147 p. (MIRA 7:9)

1. Omskaya kartograficheskaya fabrika (for Svinarenko) 2. Russia
(1923- U.S.S.R.) Glavnoye upravleniye geodezii i kartografii.
(Russia--Maps)

SVINARENKO, V. A.

MAN'KO, P.A., kandidat tekhnicheskikh nauk; LUKOVKIN, A.I.; SVINARENKO, V.A.,
inzhener.

Waste heat boiler-mufflers. Sudostroenie 23 no.6:15-18 Ja '57.
(MLRA 10:7)

(Boilers, Marine)

SVINARENKO, V.A., inzh.

Refrigerator plant on "Aktiubinsk"-type diesel-electric-engine-
propelled ships. Sudostroenie 24 no.1:16-19 Ja '58. (MIRA 11:2)
(Refrigeration on ships)

KHARITONOV, V.S., inzh.; SVINARENKO, V.A., inzh.; LYUSOV, V.F., inzh.

Noise control on diesel-electric powered refrigerator ships.
Sudostroenie 25 no.8:30-33 Ag '59. (MIRA 13:2)
(Refrigeration on ships) (Soundproofing)

SVINARENKO, V.A., inzh.

Series of refrigerator ships. Sudostroenie 28 no.4:80-81 Ap
'62. (MIRA 15:4)

(Refrigerator ships)

SVINAREV, A.I.

Blanting wide overpass. Avt. dor. no.10:14-15 0 '64.
(MIRA 17:12)

SOV/124-57-7-7749

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 39 (USSR)

AUTHOR: Svinarev, G. A.

TITLE: Investigation of a Centrifugal-compressor Stage Based on the Principle of Dynamic Similarity as Applied to Turbomachines (Issledovaniye stupeni tsentrobezhnogo kompressora na osnove zakona dinamicheskogo podobiya turbomashin)

PERIODICAL: Sb. tr. Labor. problem bystrokhod. mashin i mekhanizmov AN UkrSSR, 1955, Nr 5, pp 75-104

ABSTRACT: Bibliographic entry

Card 1/1

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 77 (USSR) SOV/124-58-1-622

AUTHOR: Svinarev, G. A.

TITLE: On the Subject of the Determination of an Economical Type of Draft Tube for Vertical Axial Hydraulic Turbines (K voprosu ob opredelenii tipa ekonomichnoy otsasyvayushchey truby vertikal'nykh osevykh gidroturbin)

PERIODICAL: Sb. tr. Labor. gidravl. mashin. AN UkrSSR, 1956, Nr 6, pp 86-120

ABSTRACT: The author adduces the results of theoretical and experimental investigations relative to the determination of an economical type of draft tube for vertical axial hydraulic turbines. In Sections 1 and 2 (the theoretical portion) the author employs G. F. Proskura's method to establish a relationship for the energy losses encountered in the runner of a hydraulic turbine and in the draft tubes (straight conical and curvilinear) in terms of the nondimensional specific-speed constant n . Using the relationships obtained the author determines the effect of the energy losses in the draft tube and the runner on the turbine efficiency. The comparisons adduced relative to the operational cost factors involved in the use of straight and curvilinear draft tubes confirm the

Card 1/2

SVINAREV, G.A., kand. tekhn. nauk

Effect of characteristics of flow in turbine on cavitation
and power indices of an axial-flow hydraulic turbine. Sbor. trud.
Lab. gidr. mash. no.7:16-42 '58. (MIRA 12:9)
(Hydraulic turbines)

SVINAREV, G.A.; VAVILOVA, G.F.

Testing a curved dual-flow suction pipe. Sbor.trud.Lab.gidr.mash.
no.9:27-36 '61. (MIRA 15:3)
(Volga Hydroelectric Power Station (22d Congress of the CPSU)--
Hydraulic turbines)

SVINAREV, G.A., kand.tekhn.nauk

Design of the working blades of axial hydraulic turbines.
Energomashinostroenie 8 no.3:13-17 Mr '62. (MIRA 15:2)
(Hydraulic turbines—Blades)

SVINAREV, G.A.

Using Academician G.F.Proskura's method in designing high-pressure
axial-flow hydraulic turbines. Sbor.trud.Lab.gidr.mash.AN URSR no.10:
85-110 '62. (MIRA 15:12)
(Hydraulic turbines--Design and construction)

SVINAREV, G.A.; VAVILOVA, G.F.

Determining the pressure on blades on an axial-flow hydraulic turbine. Sbor.trud.Lab.gidr.mash.AN URSR no.10:111-121 '62. (MIRA 15:12)

(Hydraulic turbines—Blades)

SVINAREV, G.A.

Some problems in the pressure increase in adjustable-blade axial-type
impellers. Trudy Lab.gidr.mash. AN USSR no.11:90-102 '64. (MIRA 17:10)

SVINAREV, Georgiy Andreyevich; FILIPPOV, A.P., otv. red.

[High-pressure axial-flow Kaplan turbines] Vysokonapornye
povorotnolopastnye gidroturbiny oseвого tipa. Kiev, Izd-
vo AN USSR, 1964. 134 p. (MIRA 17:5)

1. Chlen-korrespondent AN Ukr.SSR (for Filippov).

SVINAREV, G.A., kand. tekhn. nauk

Effect of the profile form of the runners on the cavitation
characteristics of high-pressure axial turbines.

Energomashinostroenie 10 no.12:5-8 D '64.

(MIRA 18:2)

SOURCE CODE: UR/0000/65/000/000/0131/0138

ACC NR: AT7006069

AUTHOR: Svinarev, G. A.; Mordovenko, L. P.

ORG: Khar'kov Affiliate, Institute of Mechanics, AN UkrSSR (Khar'kovskiy filial
Instituta mekhaniki AN UkrSSR)

TITLE: Improvement of cavitation qualities of low pressure variable-pitch axial
turbine wheels for capsule horizontal turbines

SOURCE: AN UkrSSR. Issledovaniya po prikladnoy gidronamike, 1965, 131-138

TOPIC TAGS: cavitation, turbine, turbine blade / PLG-16 turbine blade

ABSTRACT: For low pressure heads, horizontal capsule turbines have been found to
have better overload capacities than normal, vertical units. In this work, a
further investigation is reported which developed a new type of variable pitch
turbine blade wheel, the PLG-16, for horizontal capsule turbines, which is better
in its power and cavitation properties than earlier models. Orig. art. has:
5 figures. [JPRS: 35,995]

SUB CODE: 20

Card 1/1

09270881

SVINAREV, V.I.

Nature of root system development in vegetable plants grown at various spacings. *Biol. MOIP. Otd. biol.* 60 no.5:109-112 (MLRA 9:4) S-0 '55.

(VEGETABLES) (ROOTS (BOTANY))

SVINAREV, V.I.; BARANNIKOVA, Ye.V.

Influence of substances discharges by germinating rice seeds on the relation between rice and the millet *Echinochloa crus galli* (L.)
R. et Sch. Fiziol.rast. 3 no.3:272-276 My-Je '56. (MLRA 9:9)

1.Astrakhanskaya kompleksnaya sel'skokhozyaystvennaya opytnaya stantsiya.
(Rice) (Millet) (Antibiotics)

SOLOGUBOV, L.M.;SVINAREV, V.I.

Rice cultivation and prospects for the development of rice growing
in Astrakhan Province. Zemledelie 4 no.10:62-65 0 '56. (MIRA 9:11)

1. Astrakhanskaya gosudarstvennaya sel'skokhozyaystvennaya opyt'naya.
(Astrakhan Province--Rice)

USSR/Cultivated Plants. Grains.

11

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68134

Author : Sologubov, L. N., Svinarev, V. I.

Inst : Kuban' Rice Experiment Station.

Title : Rive Fertilization and Yields in the Volga-Akhtubinsk Bottom Lands and the Volga Delta.

Orig Pub : V sb.: Kratkiye itogi nauchno-issled. taboty (Kubansk. ris. opytn. st.) za 1956 g. Krasnodar, "Sov. Kuban'", 1957, 30-36

Abstract : Rice is the most productive grain for the irrigated conditions of the Volga-Akhtubinsk bottom lands. Problems of fertilization were investigated at the Astrakhan Agricultural Station. The specific physico-chemical and biological properties of the soil of the

Card : 1/2

SVINAREV, V.I.

USSR/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91586

Author : Svinarev, V.I.

Inst : Astrakhan Agricultural Experimental Station.

Title : On the Interrelations Between Plants in Artificial Variety Mixtures.

Orig Pub : Botan. zh., 1957, 42, No 1, 57-61

Abstract : According to the data of the Astrakhan Agricultural Experimental Station, in the sowing of mixtures of Palladium 45, Nutans 143 and Persicum 64 barley varieties the general crop infection with smut and bunt decreased 2 times, and in the sowing of Palladium 45, Persicum 64 mixture, decreased up to 13 times as compared to separate sowing. The seeds of barley Persicum 64, artificially infected with the bunt spores, when mixed with wheat Mellanopus 69

Card 1/2

- 8 -

COUNTRY : USSR
CATEGORY :

3-5

ABST. JOUR. : RZBiol., No. 1, 1959, No. 330

AUTHOR : Svinarev, V. I.

INST. :

TITLE : The Problem of Converting Winter Cereals
to Summer Cereals and Vice Versa

ORIG. PUB. : Botan. zh., 1958, 43, No 2, 229-238

ABSTRACT : As a result of hybridization of summer varieties the author has developed typical winter forms of hard and soft wheat. It is shown that the winter character is determined by the presence of a balanced system of several recessive genes of the same kind. In summer varieties these genes are screened by corresponding dominant alleles. Under definite conditions of crossing of summer types and rearing of hybrids, it is possible to effect such an equilibration of factors of the same kind which will result in formation of winter forms. An assumption is made concerning the origination of worldwide diversity of winter wheat as a result of crosses of

CARD: 1/2

33

SVINAREV, V.I. (Astrakhan')

Plant interrelationship as affected by different planting methods
[with summary in English]. Bot.zhur. 43 no.10:1434-1444 0 '58.
(MIRA 11:11)

(Plants, Space arrangement of)

SVINAREV, V.I.

Development of new forms in rice fields of the bottom lands and
delta of the Volga River. Dokl.AN SSSR 132 no.5:1183-1186
Je '60. (MIRA 13:6)

(Astrakhan Province--Rice) (Botany--Variation)

SVINAREV, V.I.

Effect of temporary overwet soil conditions on the growth and development of corn and the increase of salt content in soil surface. Pochvovedenie no. 10:104-109 0 '61. (MIRA 14:9)

1. Astrakhanskaya gosudarstvennaya sel'skokhozyaystvennaya opyt'naya stantsiya.

(Corn (Maize))

(Soil moisture)

SVINAREV, V.I.

Growth and development of corn plants as related to their number
in hills and the area of squares in checkrow-pocket planting. Biul.
MDIP. Otd. biol. 66 no. 3: 68-76 My-Je '61. (MIRA 14:6)
(CORN (MAIZE)) (PLANTS, SPACE ARRANGEMENT OF)

SVINAREV, V.I.

Interrelationships of primary and undersown plants in corn fields.
Dokl. AN SSSR 137 no.3:722-724 Mr '61. (MIRA 14:?)

1. Predstavleno akademikom V.N.Sukachevym.
(Corn (Maize))

SVINAREV, V.I.

Characteristics of the formation and development of the root system
of corn, soybean, and water melon in spotseeded stands. Dokl.AN SSSR
137 no.5:1233-1236 Ap '61. (MIRA 14:4)

1. Predstavleno akademikom V.V.Sukachevym.
(Plants, Space arrangement of) (Roots (Botany))

SVINAREV, V.I.; KHAMDAMOV, I.

Effect of the sowing rate and the contact among seeds during their swelling and germination on the survival and yield of *Kochia geoparia* (L) Schrad. Dokl. AN SSSR 148 no.2:456-458. Ja '63. (MIRA 16:2)

1. Vsesoyuznyy institut karakulevodstva, Samarkand. Predstavleno akademikom V.N. Sukachevym.
(Kochia) (Phytosociology)

SVINAREV, V.I.; BURTSEVA, Ye.S.

Secondary salinization of the desert soils of the Kyzylkum during irrigation with artesian waters and ways for its elimination. Pochvovedenie no.1:28-31 Ja '64.

(MIRA 17:3)

1. Vsesoyuznyy institut karakulevodstva.

SVINAREV, V.I., agronom

Irrigation using salt artesian waters during the cultivation of
forage plants in southwestern Kyzyl Kum. Gidr. i mel. 16 no.12:
11-16 D 164 (MIRA 18:2)

Svinarski, A.

175. ABSORPTION CAPACITY OF LIMONITE TOWARDS HYDROGEN SULPHIDE.
Svinarski, A., Kuczynska, I. (Gaz. Woda, Tsch. Sanit. (Gas, Water, Sanit. Engng. Warsaw), Nov. 1955, vol. 29, 377, 378; abstr. in Ass. tech. Industr. Gaz France Circ. bibliogr., 15 Feb. 1956, (2), 12). The component of limonite which seems to play a preponderant part in absorption of hydrogen sulphide is alpha iron hydroxide. Enrichment of 10% iron in the form of this hydroxide results in 100% increase in absorbed hydrogen sulphide. Limonite regeneration increases hydroxide content which improves absorption capacity for hydrogen sulphide still further. The residual free sulphur must be removed since it neutralises the action of the hydroxide.

2

Final

SVINARSKIY, K.A. (Tashkent); MOLCHANOV, I.I. (Tashkent)

Press for making strap connections. Stroi. truboprov. 10
no. 11:26 N '65. (MIRA 18:12)

1. SU-4 tresta Soyuzprovodmekhanizatsiya.